

Title (en)
TURBOGENERATOR WITH ROTOR HAVING BLADES ADAPTING TO THE APPARENT WIND

Title (de)
TURBOGENERATOR MIT ROTOR UND ROTORBLÄTTER, DIE SICH AN DEN SCHEINBAREN WIND ANPASSEN

Title (fr)
TURBOGENERATEUR A ROTOR A PALES A INCIDENCE ADAPTEE AU VENT APPARENT

Publication
EP 2572100 B1 20160309 (FR)

Application
EP 11728641 A 20110520

Priority
• FR 1002134 A 20100520
• FR 2011000306 W 20110520

Abstract (en)
[origin: WO2011144830A1] The invention relates to a turbogenerator (1) comprising a mounting (6) and a rotor (2) that can be pivoted around a main axis (5) in relation to said mounting (6) and that is provided with at least two blades (3) that are each pivotably mounted around a secondary axis (33) on at least one base (4) coupled with said rotor (2). Said turbogenerator is characterized in that it comprises a means (10) for adjusting the angle of attack of said blades (3), said setting means including at least one cam (101) and at least one follower member (102) that is rigidly connected to each of said blades (3) and is capable of engaging with said cam (101) so as to separately set each of said blades (3). Said cam (101) is shaped so as to enable the selected optimal angle of attack of each of said blades (3) to be adapted in relation to the relative wind (V_a), at each point (P1-P18) of the circle (34) covered by said secondary axis (33) of each blade (3) during the rotation of said rotor (2) around the main axis (5) thereof, for a defined ratio between the values of the true wind (V_r) and the linear wind (V_d) that is generated by the movement of said blades (3).

IPC 8 full level
F03B 17/06 (2006.01); **F03D 3/06** (2006.01); **F03D 7/06** (2006.01)

CPC (source: EP)
F03B 17/067 (2013.01); **F03D 3/068** (2013.01); **F03D 7/06** (2013.01); **Y02E 10/30** (2013.01); **Y02E 10/74** (2013.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2011144830 A1 20111124; EP 2572100 A1 20130327; EP 2572100 B1 20160309; FR 2960267 A1 20111125

DOCDB simple family (application)
FR 2011000306 W 20110520; EP 11728641 A 20110520; FR 1002134 A 20100520